

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional) 3725.3US (98-0558.03/US) Applicant Moden t al. Filing Date November 12, 2003		Application Number Not y t assigned <div style="text-align: right; font-size: 1.5em;">2818</div> Group Art Unit Unknown			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
TH	4,143,456	03/1979	Inoue	/	/		
	4,264,917	04/1981	Ugon				
TH	4,300,153	11/1981	Hayakawn et al.				
	4,323,914	04/1982	Berndmaier et al.				
TH	4,323,914	04/1982	Berndmaier et al.				
	4,358,552	11/1982	Shinohara et al.				
	4,507,675	03/1985	Fujii et al.				
	4,642,671	02/1987	Rohsler et al.				
	4,801,998	01/1989	Okuaki				
	4,862,245	08/1989	Pashby et al.				
TH	4,931,852	06/1990	Brown et al.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
TH	52-77684	06/1977	Japan	/	/		
	55-128835	10/1980	Japan				
	56-4241	01/1981	Japan				
	60-94744	05/1985	Japan				
TH	60-178651	09/1985	Japan				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
<div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border-left: 2px solid black; border-right: 2px solid black; border-bottom: 2px solid black;"></div> </div>							
EXAMINER <div style="font-size: 1.5em; font-family: cursive;">TH-TH +10</div>				DATE CONSIDERED <div style="font-size: 1.5em; font-family: cursive;">April 2004</div>			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance. Include copy of this form with next communication to the applicant.							

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
THP	4,961,107	10/1990	Geist et al.			
	4,984,059	01/1991	Kubota et al.			
	5,051,275	09/1991	Wong			
	5,101,465	03/1992	Murphy			
	5,108,955	04/1992	Ishida et al.			
	5,111,278	05/1992	Eichelberger			
	5,144,747	09/1992	Eichelberger			
	5,173,764	12/1992	Higgins, III			
	5,184,208	02/1993	Sakuta et al.			
	5,194,930	03/1993	Papathomas et al.			
	5,218,759	06/1993	Juskey et al.			
	5,241,456	08/1993	Marcinkiewicz et al.			
THP	5,252,853	10/1993	Michii			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
THP	62-109326	05/1987	Japan				
	62-115834	05/1987	Japan				
	62-261133	11/1987	Japan				
THP	2-306639	12/1990	Japan				

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER THP-THP HEO	DATE CONSIDERED April 2004
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
THP	5,280,192	01/1994	Kryzaniwsky			
	5,286,679	02/1994	Farnworth et al.			
	5,304,842	04/1994	Farnworth et al.			
	5,311,060	05/1994	Rostoker et al.			
	5,344,795	09/1994	Hashemi et al.			
	5,379,186	01/1995	Gold et al.			
	5,394,303	02/1995	Yamaji			
	5,434,105	07/1995	Liou			
	5,436,203	07/1995	Lin			
	5,440,169	08/1995	Tomita et al.			
	5,441,684	08/1995	Lee			
TH	5,450,283	09/1995	Lin et al.			

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
TH	4-157758	05/1992	Japan				

OTHER DOCUMENTS			(Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
THP	5,461,255	10/1995	Chan et al.			
	5,488,254	01/1996	Nishimura et al.			
	5,489,538	02/1996	Rostoker et al.			
	5,489,801	02/1996	Blish, II			
	5,552,635	09/1996	Kim et al.			
	5,598,034	01/1997	Wakefield			
	5,604,376	02/1997	Hamburgen et al.			
	5,641,997	06/1997	Ohta et al.			
	5,652,461	07/1997	Ootssuki et al.			
	5,656,857	08/1997	Kishita			
	5,659,952	08/1997	Kovac et al.			
	5,701,233	12/1997	Carson et al.			
	5,754,408	05/1998	Derouiche			
	5,866,953	02/1999	Akram et al.			
	6,013,948	01/2000	Akram et al.			
	6,188,127	02/2001	Senba et al.			
	6,297,548	10/2001	Moden et al.			
	6,313,522	11/2001	Akram et al.			
	6,501,165	12/2002	Farnworth et al.			
THP	6,650,007	11/2003	Moden et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

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(Including Author, Title, Date, Pertinent Pages, Etc.)

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